# SRM Institute of Science and Technology
## School of Computing
## 18CSC304J-Compiler Design

## List of Experiments

## USE C/C++/Java

1. Write a simple calculator program in C/C++/JAVA.

**Scanner & Parser:**

2. Write a program using FLEX.
3. Implementation of scanner by specifying Regular Expressions.
4. Write a program using BISON.
5. Write a program for Top Down Parsing - predictive parsing table (Removal of Left recursion/Left factoring and Compute FIRST & FOLLOW).
6. Write a program for Bottom Up Parsing - SLR Parsing.

**Intermediate Code Generation:**

7. Introduction to basic Java - Programs in java
8. Write a program to traverse syntax trees and perform action arithmetic operations.
9. Write an Intermediate code generation for If/While.

**Code Generation:**

10. Introduction to MIPS Assembly language- (Teach spim mips simulator).
11. Write a program to generate machine code for a simple statement.
12. Write a program to generate machine code for an indexed assignment statement.

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